Claims:

- 1 1. A heat sink assembly comprising:
- 2 a frame;
- a plurality of fins spacedly received in the frame, each fin defining at least
- one through hole and forming a plurality of tabs extending around a
- 5 periphery of each through hole; and
- at least one duct inserted through the through holes of the fins and in
- 7 thermal contact with the plurality of tabs.
- 2. The heat sink assembly as recited in claim 1, wherein the plurality of tabs
- of each fin comprise a tapered tab and a plurality of locating tabs.
- 1 3. The heat sink assembly as recited in claim 1, wherein a slot is defined in
- each tapered tab of each fin, for receiving an end of a tapered tab of an
- 3 adjacent fin.
- 4. The heat sink assembly as recited in claim 1, wherein a pair of locating
- 2 portions extends from each fin for forming intervals between the fins.
- 5. The heat sink assembly as recited in claim 4, wherein a pair of abutting
- 2 flanges respectively extends vertically toward each other from free ends of
- the locating portions of each fin, for abutting an adjacent fin.
- 1 6. The heat sink assembly as recited in claim 1, wherein each duct is made of
- 2 highly heat-conductive metal.
- 7. The heat sink assembly as recited in claim 1, wherein the frame comprises
- a pair of generally L-shaped casings connected together.
- 8. The heat sink assembly as recited in claim 7, wherein at least one casing
- defines a pair of end tabs for abutting outmost fins.
- 9. The heat sink assembly as recited in claim 7, wherein at least one latching

- 2 hole is defined in each casing for interferentially engaging with an end of
- 3 the corresponding duct.
- 1 10. The heat sink assembly as recited in claim 7, wherein at least one
- 2 reinforcing flange extends inwardly from opposite lateral edges of a
- 3 horizontal wall of at least one casing, and at least one screw hole is defined
- 4 in each reinforcing flange for securing the heat sink assembly to a fan.
- 1 11. A heat sink system comprising:
- 2 a fan;
- a heat pipe adapted to be attached to a heat-generating electronic device,
- 4 the heat pipe comprising at least one free end; and
- a heat sink secured to the fan, the heat sink comprising a frame, a plurality
- of fins and at least one duct, the fins and the duct being accommodated in
- 7 the frame, each fin defining at least one through hole for insertion of the
- 8 corresponding duct therein, the frame defining at least one latching hole
- 9 for interferentially engaging with an end of the corresponding duct, each
- duct interferentially receiving the corresponding free end of the heat pipe
- 11 therein;
- 1 12. The heat sink system as recited in claim 11, wherein a tapered tab and at
- least one locating tab extend from each fin around a periphery of each
- through hole, for abutting the corresponding duct.
- 1 13. The heat sink system as recited in claim 11, wherein a pair of locating
- 2 portions extends from each fin, for forming intervals between the fins.
- 1 14. The heat sink assembly as recited in claim 13, wherein a pair of abutting
- 2 flanges respectively extends vertically toward each other from free ends of
- the locating portions of each fin, for abutting an adjacent fin.
- 1 15. The heat sink assembly as recited in claim 11, wherein each duct is made

- 2 of highly heat-conductive metal.
- 1 16. The heat sink assembly as recited in claim 11, wherein the frame
- 2 comprises a pair of generally L-shaped casings connected together.
- 1 17. The heat sink assembly as recited in claim 16, wherein at least one casing
- defines a pair of end tabs for abutting outmost fins.
- 1 18. The heat sink assembly as recited in claim 16, wherein at least one
- 2 latching hole is defined in each casing for interferentially engaging with an
- 3 end of the corresponding duct.
- 1 19. The heat sink assembly as recited in claim 16, wherein at least one
- 2 reinforcing flange extends inwardly from opposite lateral edges of a
- 3 horizontal wall of at least one casing, and at least one screw hole is defined
- 4 in each reinforcing flange for securing the heat sink assembly to a fan.